

Morbidity and Mortality

Weekly
Report

PUBLIC HEALTH SERVICE

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Prepared by the NATIONAL OFFICE OF VITAL STATISTICS Executive 3-6300, Ext. 4744

For release December 28, 1957

Washington 25, D. C.

Vol. 6, No. 51

Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended December 21, 1957

The Surveillance Section of the Communicable Disease Center, Atlanta, Georgia, has provided the following summaries of investigations of certain diseases carried out in 1957. They have been prepared by Dr. Mario Pizzi, Chief of the Section; Dr. P. S. Brachman (anthrax); Dr. Jacob Brody and Dr. Frederick Dunn (malaria); and Dr. R. H. Drachman (Salmonella reading infections).

Thirty-three cases of anthrax in humans with 5 deaths were reported to the Anthrax Surveillance Section of the Communicable Disease Center during 1957. This compares with 41 cases reported during 1956. The 1957 cases were reported from 11 States. A total of 13 cases were reported by New Hampshire and 6 by Pennsylvania. Massachusetts reported 4 cases; New Jersey and Oklahoma, 2 each; Virginia, California, Alabama, Arizona, Oregon, and Arkansas, 1 each.

Imported goat hair was the most frequent source of infection being associated with 16 of the cases (including 1 case

associated with cashmere). The remaining cases were related to animals or animal products as follows: agricultural contact, 5 cases (4 of which had had definite contact with dead animals); imported wool, 3 cases; imported animal hides, 3 cases; imported bone meal, 1 case; unknown contact, 2 cases (one of these patients was a stevadore, but his exact contact was not reported); and in the 4 remaining cases, the occupation or contact was not reported. Thus, 72.8 percent of the reported cases had industrial contact, 15.2 percent had agricultural contact, and in 12.1 percent of the cases, the contact was not reported.

Twenty-two of the cases had cutaneous lesions; and 6 additional cases are presumed to have been cutaneous, but the location was not reported. Of 5 cases diagnosed as inhalation anthrax, 4 occurred at one imported goat's-hair processing mill in New Hampshire, and the fifth occurred in Pennsylvania

Continued on page 2

Table 1. Cases of Specified Notifiable Diseases: Continental United States

(Numbers after diseases are category numbers of the Sixth Revision of the International Lists, 1948)

DISEASE	51st WEEK			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended Dec. 21, 1957 ¹	Ended Dec. 22, 1956	Median 1952-56	First 51 weeks			Since seasonal low week			
				1957 ¹	1956	Median 1952-56	1956-57 ¹	1955-56	Median 1951-52 to 1955-56	
Anthrax-----062	-	1	-	21	37	30	(2)	(2)	(2)	(2)
Botulism-----049.1	-	-	-	11	12	12	(2)	(2)	(2)	(2)
Brucellosis (undulant fever)-----044	12	19	19	899	1,084	1,680	(2)	(2)	(2)	(2)
Diphtheria-----055	57	24	38	1,175	1,548	2,017	711	722	1,243	July 1
Encephalitis, infectious-----082	22	16	16	1,833	2,173	1,905	1,273	1,544	1,316	June 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	266	344	454	14,645	18,883	30,940	3,635	4,804	7,103	Sept. 1
Malaria-----110-117	-	2	5	145	233	695	(2)	(2)	(2)	(2)
Measles-----085	3,337	4,293	3,854	477,521	609,401	609,401	27,867	32,699	29,672	Sept. 1
Meningococcal infections-----057	50	46	57	2,581	2,653	4,071	896	688	962	Sept. 1
Meningitis, other-----340	37	26	---	2,309	1,598	---	---	---	---	---
Polio myelitis-----080	31	72	195	5,863	15,298	35,558	5,337	14,246	33,666	Apr. 1
Paralytic-----080.0,080.1	15	34	---	2,140	6,651	---	1,866	6,068	---	Apr. 1
Nonparalytic-----080.2	10	16	---	2,796	5,848	---	2,633	5,578	---	Apr. 1
Unspecified-----080.3	6	22	---	927	2,799	---	838	2,600	---	Apr. 1
Psittacosis-----096.2	10	14	2	251	503	268	(2)	(2)	(2)	(2)
Rabies in man-----094	-	1	-	5	9	11	(2)	(2)	(2)	(2)
Typhoid fever-----040	7	16	23	1,266	1,747	2,232	1,009	1,435	1,830	Apr. 1
Typhus fever, endemic-----101	1	-	-	114	103	179	89	84	146	Apr. 1
Rabies in animals-----	42	76	89	4,125	4,625	6,673	722	873	1,256	Oct. 1

¹Data exclude reports from Colorado, Florida, Montana, Nebraska, and South Carolina for the current week.

²Data show no pronounced seasonal change in incidence.

Symbols.—1 dash [-]: no cases reported; 3 dashes [---]: data not available.

with the source of infection being unknown. Of the 22 known cutaneous cases, 14 involved the arm, 6 the face and neck, 1 the chest, and 1 was of anthrax sinusitis. Twenty-three of the cases occurred in males, 6 in females; and the sex of 4 patients was not reported. Cases occurred in all months except January and December, without seasonal predominance. These data are similar to the data reported for 1956.

Extensive epidemics of aseptic meningitis syndrome characterized primarily by fever, severe headache, vomiting, meningeal signs, and cerebrospinal fluid pleocytosis were reported in 5 States during 1957. Hardest hit was the North Central Region where large numbers of nonparalytic "polio-like" aseptic meningitis cases occurred in association with infection by ECHO and Coxsackie group B viruses. In Milwaukee, Wisconsin, and Minneapolis and St. Paul, Minnesota, hundreds of cases of aseptic meningitis syndrome occurred during widespread epidemics of acute febrile illnesses which were apparently caused by ECHO virus, type 9, for the first time in this country. A fine maculopapular rash developed in numerous cases with or without aseptic meningitis. Similar clinical and epidemiological patterns were reported in smaller ECHO-9 outbreaks this year in several other States, including Ohio and Connecticut. Other large outbreaks of aseptic meningitis without rash were reported during 1957 in North Carolina (apparently caused by Coxsackie B-5), and in Tennessee and Virginia. Localized outbreaks occurred in at least 9 additional States, and endemic cases have been recorded throughout the nation. Laboratory study of many of these endemic cases has suggested concurrent infection with mumps, Coxsackie, or ECHO viruses.

During the 1957 arthropod-borne encephalitis season, virus activity was characterized by a relatively light and diffuse national occurrence. St. Louis encephalitis (SLE), as in 1956, accounted for the largest outbreak with 120 human cases in Cameron County, Texas. A smaller, mixed epidemic of SLE and western equine encephalitis occurred in the high plains, the Panhandle of Texas. Sporadic cases of SLE were reported from California, Kentucky, Colorado, Florida, and Missouri. Western equine encephalitis activity increased over recent years in Colorado and northern Utah, with an outbreak of human cases in Denver. Sporadic cases occurred in North Dakota and California. Virus was recovered from mosquitoes and avian hosts in Colorado and California. Cases in horses were reported in Nebraska, Idaho, South Dakota, Utah, Texas, New Mexico, Washington, and Montana. Eastern equine encephalitis (EEE) was confined to the South Atlantic and Gulf Coast States. Three human cases were confirmed in Louisiana and 2 in Florida. A presumptive case in Kentucky provides the first evidence of the virus in that State. Cases in horses compatible with EEE were mainly confined to Florida, Louisiana, Georgia, Alabama, and South Carolina, with very few cases reported from more northerly States.

Some information and appraisal is available for 40 of the 144 malaria cases reported to NOVS by the end of November. Further evaluation is in progress. Of the 40 cases, 24 have been confirmed as malaria—all *Plasmodium vivax*. Six cases were shown not to be malaria, while in 2 instances the diagnosis is still in doubt. While 16 of the 24 confirmed cases were of foreign origin (soldiers, travelers, and migrant laborers), 8 were apparently indigenous. Four of these were from Sutter County, California. These cases were all in white males. All dates of onset occurred in the first week of August. The patients were close

neighbors, living in houses on the same ranch, in close proximity to a Mexican migrant labor camp. *Anopheles freeborni* was present in sufficient numbers to transmit the infection, although no infected mosquitoes were collected. The remaining 4 indigenous cases occurred in Oklahoma. Two were in a couple who had traveled extensively in the United States. Their home was in an area which is not known to be malarial, but where mosquito vectors are plentiful. The other 2 indigenous cases were among Indians in Cherokee County which has been an historically malarial area. Three cases occurred there in 1956.

EPIDEMIOLOGICAL REPORTS

Influenza

Although reports from States indicate a decreasing incidence of influenza throughout the country, the number of deaths from all causes in 114 large cities increased slightly above that for the previous week, that is, 11,997 as compared with 11,804. The increase was evident for each geographic area except the New England, East North Central, and Mountain Divisions. The numbers of deaths were above the expected value in the Middle Atlantic, South Atlantic, and Mountain Divisions. Thirteen cities reported a greater than expected number of deaths. The number of deaths from influenza and pneumonia was 566 as compared with 535 for the previous week. The numbers were above expected values for the country as a whole and particularly in the East North Central, West North Central, South Atlantic, Mountain, and Pacific Divisions.

The World Health Organization, Geneva, states that the following information on influenza in Japan has been received from a virologist who is visiting that country: "The second epidemic due to the Asian strain type A influenza virus now appears to have reached its peak in most areas. The incidence has been relatively high in those areas which had a low incidence during the first epidemic last May-June. Areas heavily affected in the first epidemic have had a much lower incidence. A few second attacks confirmed by laboratory tests have been recorded. Everywhere the disease has occurred it has been mild with a low mortality rate. Incomplete figures suggest that the number of deaths attributed to influenza will be no higher in the second epidemic than in the first. The number of deaths in both epidemics is less than the number of deaths in the epidemic due to the Dutch-1956 strain in December 1956 to February 1957. No unusual clinical features have been noted. The effect on the normal life of the population has been of minor importance."

Gastro-enteritis

Three outbreaks of gastro-enteritis have been reported by the California State Department of Public Health. In one instance, 2 persons who ate in a restaurant became ill in about 1 hour and complained of dizziness, nausea, sweating, and slight numbness of the lips. A salad dressing was suspected of being the vehicle of infection, although no laboratory tests were made to confirm the source and nature of the illness. In another instance, 6 persons eating in a restaurant became ill 1 to 3 hours later with nausea, vomiting, and cramps. Egg roll or almond chicken was thought to be the vehicle of infection, but laboratory tests were negative for pathogenic organisms. A food handler had sores on his face and arms. The third episode consisted of a mild illness with diarrhea and cramps affecting 31 persons who ate in a fraternity house. Chicken salad was the suspected vehicle. It could not be determined whether the chicken was

Continued on page 8

Morbidity and Mortality Weekly Report

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 22, 1956 AND DECEMBER 21, 1957

(By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	BRUCELLOSIS (UNDULANT FEVER)		DIPHTHERIA 055				ENCEPHALITIS, INFECTIOUS		HEPATITIS, INFECTIOUS, AND SERUM 092,N998.5 pt.			
	044		51st week		Cumulative first 51 weeks		082		51st week		Cumulative first 51 weeks	
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956
CONT. UNITED STATES ¹ -----	12	19	57	24	1,175	1,548	22	16	266	344	14,645	18,883
NEW ENGLAND-----	-	2	-	1	27	17	-	-	8	22	764	1,184
Maine-----	-	-	-	-	3	-	-	-	1	5	238	299
New Hampshire-----	-	-	-	-	-	1	-	-	-	-	8	33
Vermont-----	-	1	-	-	-	-	-	-	-	-	6	88
Massachusetts-----	-	1	-	1	24	16	-	-	4	2	228	299
Rhode Island-----	-	-	-	-	-	-	-	-	3	5	78	141
Connecticut-----	-	-	-	-	-	-	-	-	-	4	124	246
MIDDLE ATLANTIC-----	2	-	2	1	92	66	8	4	40	106	2,376	4,038
New York-----	-	-	-	1	40	21	8	3	23	90	1,487	2,211
New Jersey-----	-	-	-	-	10	24	-	1	3	5	287	372
Pennsylvania-----	2	-	2	-	42	21	-	-	-	14	11	602
EAST NORTH CENTRAL-----	1	6	48	7	123	335	8	5	30	68	2,541	2,914
Ohio-----	-	-	-	-	14	18	2	1	7	10	620	705
Indiana-----	-	-	-	-	18	92	-	-	6	13	332	391
Illinois-----	-	5	-	-	3	8	6	1	6	11	697	686
Michigan-----	-	-	48	7	86	215	-	3	10	27	656	805
Wisconsin-----	1	1	-	-	2	2	-	-	1	7	236	327
WEST NORTH CENTRAL ¹ -----	5	8	-	4	89	135	1	-	5	25	792	1,488
Minnesota-----	2	1	-	1	35	27	-	-	2	13	293	493
Iowa-----	1	4	-	-	12	18	-	-	-	-	176	368
Missouri-----	-	1	-	-	1	14	-	-	1	2	129	97
North Dakota-----	1	-	-	2	3	12	-	-	2	9	102	145
South Dakota-----	-	-	-	1	10	12	-	-	-	-	36	178
Nebraska-----	-	-	-	-	¹ 21	34	-	-	-	-	¹ 24	97
Kansas-----	1	2	-	-	7	18	1	-	-	-	32	110
SOUTH ATLANTIC ¹ -----	-	1	4	2	387	377	2	-	14	22	1,115	1,203
Delaware-----	-	-	-	-	-	-	-	-	-	-	12	31
Maryland-----	-	-	-	-	3	2	-	-	-	3	95	93
District of Columbia-----	-	-	-	-	-	1	-	-	-	-	13	21
Virginia-----	-	-	2	1	20	32	-	-	6	8	422	480
West Virginia-----	-	1	1	-	10	8	-	-	2	-	98	67
North Carolina-----	-	-	-	-	50	68	2	-	1	3	110	126
South Carolina-----	-	-	-	-	¹ 104	85	-	-	-	6	¹ 34	71
Georgia-----	-	-	1	1	113	83	-	-	5	-	134	160
Florida-----	-	-	-	-	¹ 87	98	-	-	-	2	¹ 197	154
EAST SOUTH CENTRAL-----	2	-	1	2	161	210	1	1	23	28	1,820	1,660
Kentucky-----	1	-	-	-	18	17	-	-	14	13	779	530
Tennessee-----	1	-	-	-	12	23	-	1	4	10	642	699
Alabama-----	-	-	1	2	71	113	-	-	4	2	262	206
Mississippi-----	-	-	-	-	60	57	1	-	1	3	133	225
WEST SOUTH CENTRAL-----	-	1	-	3	212	294	-	1	23	16	1,134	1,339
Arkansas-----	-	1	-	-	46	22	-	-	2	1	81	146
Louisiana-----	-	-	-	1	25	38	-	-	-	-	52	138
Oklahoma-----	-	-	-	-	23	59	-	1	10	8	141	115
Texas-----	-	-	-	2	118	175	-	-	11	7	860	940
MOUNTAIN ¹ -----	-	-	2	4	49	60	-	1	80	33	1,354	1,647
Montana-----	-	-	-	-	¹ 14	4	-	-	-	8	¹ 180	389
Idaho-----	-	-	-	-	1	1	-	-	-	3	101	201
Wyoming-----	-	-	-	-	11	7	-	-	-	-	55	115
Colorado-----	-	-	-	-	12	3	-	-	-	16	¹ 192	372
New Mexico-----	-	-	2	4	14	36	-	-	1	-	402	163
Arizona-----	-	-	-	-	4	6	-	1	72	5	321	321
Utah-----	-	-	-	-	2	3	-	-	7	1	73	77
Nevada-----	-	-	-	-	-	-	-	-	-	-	30	9
PACIFIC-----	2	1	-	-	35	54	2	4	43	24	2,749	3,410
Washington-----	-	-	-	-	23	12	-	-	2	6	375	617
Oregon-----	-	-	-	-	3	11	-	-	7	9	499	683
California-----	2	1	-	-	9	31	2	4	34	9	1,875	2,110
Alaska-----	-	-	5	-	5	36	-	-	3	22	115	210
Hawaii-----	-	-	-	-	1	-	-	-	1	-	69	55
Puerto Rico-----	-	-	-	5	60	86	-	-	-	4	159	233

¹Data exclude reports from Colorado, Florida, Montana, Nebraska, and South Carolina for the current week.

Morbidity and Mortality Weekly Report

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 22, 1956 AND DECEMBER 21, 1957—Continued
(By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	POLIOMYELITIS 080								MALARIA		MEASLES	
	Total ²				Paralytic		Nonparalytic					
	51st week		Cumulative first 51 weeks		080.0,080.1		080.2		110-117		085	
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956
CONT. UNITED STATES ¹ -----	31	72	5,863	15,298	15	34	10	16	-	2	3,337	4,293
NEW ENGLAND-----	2	-	83	251	1	-	1	-	-	-	282	172
Maine-----	-	-	9	22	-	-	-	-	-	-	57	2
New Hampshire-----	-	-	4	3	-	-	-	-	-	-	6	2
Vermont-----	-	-	5	21	-	-	-	-	-	-	2	46
Massachusetts-----	1	-	25	110	1	-	-	-	-	-	161	64
Rhode Island-----	-	-	-	9	-	-	-	-	-	-	29	5
Connecticut-----	1	-	40	86	-	-	1	-	-	-	27	53
MIDDLE ATLANTIC-----	2	4	340	1,209	-	2	1	-	-	-	480	890
New York-----	-	3	216	792	-	2	-	-	-	-	405	399
New Jersey-----	-	-	79	210	-	-	-	-	-	-	29	173
Pennsylvania-----	2	1	45	207	-	-	1	-	-	-	46	318
EAST NORTH CENTRAL-----	7	16	1,544	4,119	-	4	4	4	-	-	704	676
Ohio-----	3	3	273	625	-	1	-	-	-	-	103	80
Indiana-----	2	5	201	427	-	-	2	-	-	-	25	110
Illinois-----	-	1	346	1,834	-	-	-	-	-	-	56	100
Michigan-----	2	5	510	679	-	1	2	4	-	-	77	165
Wisconsin-----	-	2	214	554	-	2	-	-	-	-	443	221
WEST NORTH CENTRAL ¹ -----	-	3	460	1,706	-	-	-	-	-	-	61	276
Minnesota-----	-	-	55	204	-	-	-	-	-	-	-	59
Iowa-----	-	-	85	628	-	-	-	-	-	-	12	65
Missouri-----	-	-	125	421	-	-	-	-	-	-	5	76
North Dakota-----	-	-	11	38	-	-	-	-	-	-	44	71
South Dakota-----	-	-	41	38	-	-	-	-	-	-	-	3
Nebraska-----	-	3	177	190	-	-	-	-	-	-	-	2
Kansas-----	-	-	66	187	-	-	-	-	-	-	-	-
SOUTH ATLANTIC ¹ -----	4	10	846	1,502	4	7	-	1	-	-	473	233
Delaware-----	-	-	5	27	-	-	-	-	-	-	4	3
Maryland-----	-	3	41	111	-	2	-	1	-	-	204	4
District of Columbia-----	1	-	70	11	1	-	-	-	-	-	14	-
Virginia-----	-	1	112	231	-	1	-	-	-	-	54	62
West Virginia-----	-	2	51	113	-	1	-	-	-	-	89	103
North Carolina-----	2	3	221	336	2	3	-	-	-	-	49	18
South Carolina-----	-	1	129	112	-	-	-	-	-	-	-	28
Georgia-----	1	-	84	197	1	-	-	-	-	-	59	-
Florida-----	-	-	133	364	-	-	-	-	-	-	-	15
EAST SOUTH CENTRAL-----	2	10	419	746	-	4	-	2	-	-	353	863
Kentucky-----	-	2	109	198	-	2	-	-	-	-	79	236
Tennessee-----	-	3	150	154	-	1	-	2	-	-	265	426
Alabama-----	2	4	55	100	-	-	-	-	-	-	3	189
Mississippi-----	-	1	105	294	-	1	-	-	-	-	6	12
WEST SOUTH CENTRAL-----	4	16	1,097	2,408	3	12	1	4	-	1	315	519
Arkansas-----	-	1	55	217	-	-	-	1	-	-	32	66
Louisiana-----	-	4	181	619	-	3	-	1	-	1	1	9
Oklahoma-----	-	1	123	224	-	1	-	-	-	-	25	15
Texas-----	4	10	738	1,348	3	8	1	2	-	-	257	429
MOUNTAIN ¹ -----	3	2	245	830	3	-	-	-	-	-	226	351
Montana-----	-	-	12	54	-	-	-	-	-	-	-	66
Idaho-----	-	-	25	110	-	-	-	-	-	-	121	14
Wyoming-----	-	-	13	37	-	-	-	-	-	-	1	-
Colorado-----	-	-	150	160	-	-	-	-	-	-	-	39
New Mexico-----	1	-	50	82	1	-	-	-	-	-	38	47
Arizona-----	2	-	58	129	2	-	-	-	-	-	35	36
Utah-----	-	2	33	224	-	-	-	-	-	-	31	137
Nevada-----	-	-	4	34	-	-	-	-	-	-	-	12
PACIFIC-----	7	11	829	2,527	4	5	3	5	-	1	443	313
Washington-----	-	2	21	188	-	1	-	-	-	-	129	145
Oregon-----	2	1	50	172	1	1	1	-	-	-	148	33
California-----	5	8	758	2,167	3	3	2	5	-	1	166	135
Alaska-----	-	-	3	12	-	-	-	-	-	-	34	11
Hawaii-----	-	-	10	68	-	-	-	-	-	-	6	328
Puerto Rico-----	-	-	33	51	-	-	-	-	-	-	41	92

¹Data exclude reports from Colorado, Florida, Montana, Nebraska, and South Carolina for the current week.

²Includes cases not specified by type, category number 080.3.

Morbidity and Mortality Weekly Report

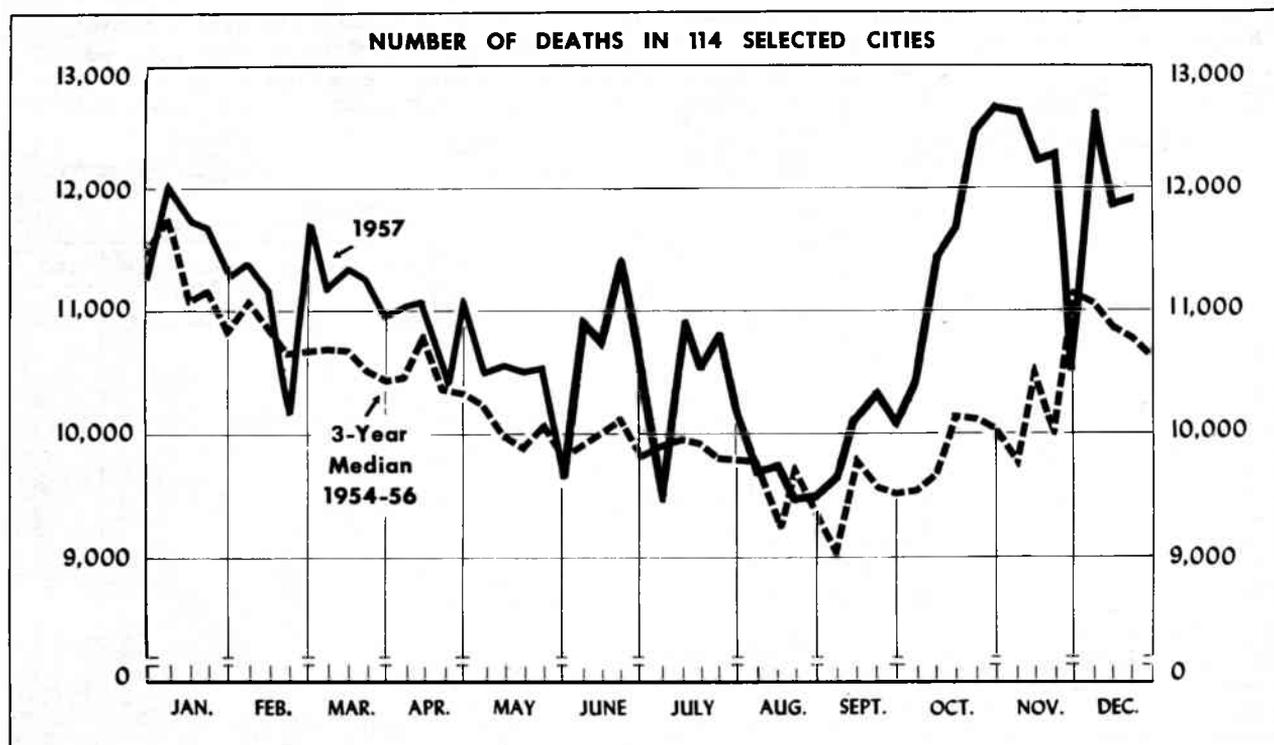
Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED DECEMBER 22, 1956 AND DECEMBER 21, 1957—Continued
(By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	MENINGOCOCCAL INFECTIONS		MENINGITIS, OTHER	PSITTACOSIS		TYPHOID FEVER 040				TYPHUS FEVER, ENDEMIC	RABIES IN ANIMALS	
	057		340	096.2		51st week		Cumulative first 51 weeks		101	1957	1956
	1957	1956	1957	1957	1956	1957	1956	1957	1956	1957	1957	1956
CONT. UNITED STATES ¹ -----	50	46	37	10	14	7	16	1,266	1,747	1	42	76
NEW ENGLAND-----	3	2	2	-	3	-	1	25	57	-	-	-
Maine-----	-	-	-	-	1	-	-	2	17	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	2	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	3	-	-	-
Massachusetts-----	2	2	1	-	1	-	1	13	18	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	5	6	-	-	-
Connecticut-----	1	-	1	-	1	-	-	3	13	-	-	-
MIDDLE ATLANTIC-----	7	5	-	2	1	4	-	156	205	-	1	3
New York-----	4	3	-	1	-	1	-	59	58	-	-	3
New Jersey-----	1	-	-	-	-	-	-	20	32	-	-	-
Pennsylvania-----	2	2	-	1	1	3	-	77	115	-	1	-
EAST NORTH CENTRAL-----	11	11	15	1	4	-	4	178	231	-	10	8
Ohio-----	4	2	-	-	-	-	3	65	63	-	4	-
Indiana-----	-	1	2	-	-	-	1	63	31	-	2	3
Illinois-----	4	1	13	-	-	-	-	21	37	-	1	2
Michigan-----	-	7	-	-	4	-	-	15	55	-	-	1
Wisconsin-----	3	-	-	1	-	-	-	14	45	-	3	2
WEST NORTH CENTRAL ¹ -----	5	2	3	-	-	1	-	90	203	-	12	19
Minnesota-----	1	1	2	-	-	-	-	6	37	-	7	5
Iowa-----	-	-	1	-	-	-	-	22	61	-	-	9
Missouri-----	2	1	-	-	-	1	-	45	70	-	3	5
North Dakota-----	-	-	-	-	-	-	-	2	6	-	2	-
South Dakota-----	-	-	-	-	-	-	-	8	3	-	-	-
Nebraska-----	-	-	-	-	-	-	-	11	13	-	-	-
Kansas-----	2	-	-	-	-	-	-	6	13	-	-	-
SOUTH ATLANTIC ¹ -----	5	7	7	6	5	-	2	235	284	1	8	15
Delaware-----	-	-	-	-	-	-	-	1	4	-	-	-
Maryland-----	-	-	-	-	-	-	2	10	21	-	-	-
District of Columbia-----	-	-	1	-	-	-	-	10	12	-	-	-
Virginia-----	1	2	-	-	-	-	-	41	56	-	3	1
West Virginia-----	1	-	1	-	-	-	-	50	24	-	-	-
North Carolina-----	1	3	-	-	5	-	-	14	29	-	-	-
South Carolina-----	-	1	-	-	-	-	-	22	31	-	-	3
Georgia-----	2	-	5	6	-	-	-	33	53	1	5	10
Florida-----	-	1	-	-	-	-	-	54	54	-	-	1
EAST SOUTH CENTRAL-----	11	7	5	-	-	1	-	174	236	-	5	10
Kentucky-----	10	1	-	-	-	-	-	54	57	-	-	5
Tennessee-----	-	2	3	-	-	-	-	67	82	-	4	-
Alabama-----	1	3	-	-	-	1	-	13	30	-	-	5
Mississippi-----	-	1	2	-	-	-	-	40	67	-	1	-
WEST SOUTH CENTRAL-----	2	3	4	1	-	1	8	251	336	-	6	17
Arkansas-----	1	-	1	1	-	1	1	43	71	-	-	2
Louisiana-----	-	-	-	-	-	-	4	59	55	-	1	15
Oklahoma-----	-	1	2	-	-	-	2	26	53	-	-	-
Texas-----	1	2	1	-	-	1	1	123	157	-	5	-
MOUNTAIN ¹ -----	-	2	-	-	1	-	1	55	77	-	-	-
Montana-----	-	-	-	-	-	-	-	13	3	-	-	-
Idaho-----	-	-	-	-	-	-	-	4	4	-	-	-
Wyoming-----	-	1	-	-	-	-	-	2	3	-	-	-
Colorado-----	-	1	-	-	-	-	-	112	21	-	-	-
New Mexico-----	-	-	-	-	-	-	1	21	18	-	-	-
Arizona-----	-	-	-	-	-	-	-	10	24	-	-	-
Utah-----	-	-	-	1	-	-	-	3	2	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	2	-	-	-
PACIFIC-----	6	7	1	-	-	-	-	102	118	-	-	4
Washington-----	1	3	1	-	-	-	-	7	3	-	-	-
Oregon-----	-	1	-	-	-	-	-	6	14	-	-	-
California-----	5	3	-	-	-	-	-	89	101	-	-	4
Alaska-----	-	-	-	-	-	-	-	2	1	-	-	-
Hawaii-----	-	-	-	-	-	-	-	4	-	1	-	-
Puerto Rico-----	-	-	-	-	-	-	1	17	86	-	-	-

¹Data exclude reports from Colorado, Florida, Montana, Nebraska, and South Carolina for the current week.

Symbol.--1 dash [-]: no cases reported; 3 dashes [---]: data not available.

Morbidity and Mortality Weekly Report



The chart shows the number of deaths reported for 114 major cities of the United States by week for the current year, and, for comparison, the median of the number of deaths reported for the corresponding weeks of the 3 previous calendar years. (The median is the central one of the three values arranged in order of magnitude.) If a report is not received from a city in time to be included in the total for the current week, an estimate is made to maintain comparability for graphic presentation.

The figures reported represent the number of death certificates received in the vital statistics offices during the week indicated for deaths occurring in that city. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the

interval between death and receipt of the certificate.

While week-to-week changes in the total number of deaths reported for all major cities generally represent a change in mortality conditions, this may not be true for variations in weekly figures for each city. For example, in a city with a weekly average of 50 deaths, the number of deaths occurring in a week may be expected to vary by chance alone from 36 to 64 ($d \pm 2\sqrt{d}$, where d represents the average number of deaths per week).

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of their populations, and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS

(By place of occurrence, and week of filing certificate. Excludes fetal deaths.)

AREA	51st week ended Dec. 21, 1957	50th week ended Dec. 14, 1957	51st week median 1954-56	Percent change, median to current week	CUMULATIVE NUMBER FIRST 51 WEEKS		
					1957	1956	Percent change
TOTAL: 113 REPORTING CITIES-----	11,953	11,772	10,738	+11.3	558,340	531,966	+5.0
New England----- (14 cities)	708	753	706	+0.3	35,820	34,327	+4.3
Middle Atlantic----- (19 cities)	3,477	3,381	3,090	+12.5	160,589	154,402	+4.0
East North Central----- (19 cities)	2,497	2,517	2,364	+5.6	121,047	115,961	+4.4
West North Central----- (9 cities)	875	816	735	+19.0	40,069	37,660	+6.4
South Atlantic----- (11 cities)	1,053	1,023	890	+18.3	47,314	44,600	+6.1
East South Central----- (8 cities)	533	524	413	+29.1	25,110	23,977	+4.7
West South Central----- (13 cities)	1,030	989	799	+28.9	46,692	43,002	+8.6
Mountain----- (8 cities)	315	330	248	+27.0	14,136	12,587	+12.3
Pacific----- (12 cities)	1,465	1,439	1,270	+15.4	67,563	65,450	+3.2

Morbidity and Mortality Weekly Report

7

Table 4. DEATHS IN SELECTED CITIES

(By place of occurrence, and week of filing certificate. Excludes fetal deaths)

AREA	51st week ended Dec. 21, 1957	50th week ended Dec. 14, 1957	CUMULATIVE NUMBER FIRST 51 WEEKS		AREA	51st week ended Dec. 21, 1957	50th week ended Dec. 14, 1957	CUMULATIVE NUMBER FIRST 51 WEEKS	
			1957	1956				1957	1956
NEW ENGLAND					WEST NORTH CENTRAL—Con.				
Boston, Mass.	251	257	12,113	11,613	St. Louis, Mo.	272	246	12,414	11,840
Bridgeport, Conn.	51	43	1,983	1,860	St. Paul, Minn.	91	74	3,422	3,321
Cambridge, Mass.	21	33	1,509	1,496	Wichita, Kans.	37	48	2,293	2,127
Fall River, Mass.	29	36	1,408	1,397	SOUTH ATLANTIC				
Hartford, Conn.	38	57	2,564	2,392	Atlanta, Ga.	99	132	5,671	5,502
Lovell, Mass.	30	25	1,419	1,193	Baltimore, Md.	243	257	12,321	11,754
Lynn, Mass.	28	23	1,107	1,069	Charlotte, N. C.	36	25	1,756	1,515
New Bedford, Mass.	30	28	1,244	1,148	Jacksonville, Fla.	75	65	2,833	2,614
New Haven, Conn.	44	39	2,367	2,321	Miami, Fla.	63	60	2,612	2,617
Providence, R. I.	72	62	3,186	3,139	Norfolk, Va.	38	45	1,912	1,660
Somerville, Mass.	19	18	680	763	Richmond, Va.	99	65	3,847	3,562
Springfield, Mass.	35	58	2,175	2,090	Savannah, Ga.	54	35	1,569	1,451
Waterbury, Conn.	36	22	1,294	1,288	Tampa, Fla.	79	83	3,233	2,924
Worcester, Mass.	44	52	2,771	2,558	Washington, D. C.	216	209	9,706	9,236
MIDDLE ATLANTIC					Wilmingon, Del.	51	47	1,854	1,765
Albany, N. Y.	57	53	2,547	2,477	EAST SOUTH CENTRAL				
Allentown, Pa.	30	29	1,930	1,894	Birmingham, Ala.	107	102	4,159	3,900
Buffalo, N. Y.	183	158	7,432	7,215	Chattanooga, Tenn.	46	48	2,379	2,116
Camden, N. J.	53	37	2,075	1,978	Knoxville, Tenn.	30	26	1,390	1,635
Elizabeth, N. J.	23	33	1,443	1,395	Louisville, Ky.	97	109	5,473	5,346
Erie, Pa.	32	39	1,847	1,650	Memphis, Tenn.	125	113	5,442	5,033
Jersey City, N. J.	71	70	3,546	3,527	Mobile, Ala.	50	38	1,885	1,769
Newark, N. J.	104	112	5,244	4,886	Montgomery, Ala.	25	29	1,380	1,445
New York City, N. Y.	1,796	1,785	82,246	79,002	Nashville, Tenn.	53	59	3,002	2,733
Paterson, N. J.	(44)	---	---	(1,933)	WEST SOUTH CENTRAL				
Philadelphia, Pa.	529	545	24,955	24,058	Austin, Tex.	31	39	1,536	1,389
Pittsburgh, Pa.	199	150	9,474	9,253	Baton Rouge, La.	29	42	1,292	1,125
Reading, Pa.	31	27	1,198	1,095	Corpus Christi, Tex.	29	14	1,082	1,018
Rochester, N. Y.	129	113	5,080	4,819	Dallas, Tex.	120	105	5,647	5,521
Schenectady, N. Y.	28	21	1,204	1,136	El Paso, Tex.	39	37	1,646	1,374
Scranton, Pa.	31	36	1,930	1,726	Fort Worth, Tex.	58	90	3,248	2,975
Syracuse, N. Y.	68	58	3,034	3,015	Houston, Tex.	181	155	7,697	6,931
Trenton, N. J.	39	51	2,290	2,209	Little Rock, Ark.	45	49	2,692	2,357
Utica, N. Y.	33	31	1,591	1,564	New Orleans, La.	202	234	8,908	8,048
Yonkers, N. Y.	41	33	1,523	1,503	Oklahoma City, Okla.	67	76	3,196	3,207
EAST NORTH CENTRAL					San Antonio, Tex.	120	73	4,935	4,502
Akron, Ohio	65	81	2,838	2,702	Shreveport, La.	47	48	2,390	2,272
Canton, Ohio	34	39	1,625	1,449	Tulsa, Okla.	62	27	2,423	2,283
Chicago, Ill.	823	808	39,098	37,239	MOUNTAIN				
Cincinnati, Ohio	109	158	7,806	7,645	Albuquerque, N. Mex.	30	16	1,327	1,172
Cleveland, Ohio	265	226	10,757	10,464	Colorado Springs, Colo.	16	15	695	661
Columbus, Ohio	96	118	5,773	5,493	Denver, Colo.	108	140	5,762	5,487
Dayton, Ohio	74	73	3,689	3,379	Ogden, Utah	14	16	650	644
Detroit, Mich.	337	339	16,682	16,082	Phoenix, Ariz.	53	45	1,694	1,329
Evansville, Ind.	46	31	1,693	1,693	Pueblo, Colo.	8	12	634	641
Flint, Mich.	38	37	1,929	1,950	Salt Lake City, Utah	63	55	2,349	2,268
Fort Wayne, Ind.	38	37	1,883	1,811	Tucson, Ariz.	23	31	1,025	385
Gery, Ind.	29	23	1,482	1,461	PACIFIC				
Grand Rapids, Mich.	44	50	2,086	2,063	Berkeley, Calif.	22	17	1,004	857
Indianapolis, Ind.	143	125	6,248	5,966	Long Beach, Calif.	79	63	2,807	2,721
Milwaukee, Wis.	141	140	6,763	6,321	Los Angeles, Calif.	544	558	24,479	23,961
Peoria, Ill.	27	26	1,540	1,475	Oakland, Calif.	102	95	4,840	4,645
South Bend, Ind.	34	34	1,350	1,249	Pasadena, Calif.	35	39	1,806	1,777
Toledo, Ohio	101	118	4,933	4,791	Portland, Oreg.	79	103	4,990	4,781
Youngstown, Ohio	53	54	2,872	2,728	Sacramento, Calif.	68	53	2,655	2,482
WEST NORTH CENTRAL					San Diego, Calif.	99	94	4,100	3,831
Des Moines, Iowa	65	44	2,865	2,568	San Francisco, Calif.	214	199	9,748	9,706
Duluth, Minn.	29	32	1,391	1,318	Seattle, Wash.	143	133	6,730	6,420
Kansas City, Kans.	29	34	1,458	1,559	Spokane, Wash.	47	40	2,393	2,337
Kansas City, Mo.	149	121	6,135	5,518	Tacoma, Wash.	33	45	2,011	1,932
Minneapolis, Minn.	143	135	6,543	6,092	Honolulu, Hawaii				
Omaha, Nebr.	60	82	3,548	3,317	(39)	(33)	(1,931)	(1,776)	

Symbols.—parentheses [()] : data not included in table 3; 3 dashes [---] : data not available.

Morbidity and Mortality Weekly Report

EPIDEMIOLOGICAL REPORTS—Continued

inadequately cooked or whether it was contaminated while standing at room temperature. Specimens showed a profuse growth of organisms, probably paracols.

Salmonellosis

Information has been received that a large outbreak of salmonellosis has occurred in a city in Louisiana, 141 cases being confirmed by laboratory tests. A number of banquets were served in 12 different churches, but illness was reported in only 3 of them. In one church, of 200 persons who ate at the banquet, 150 to 160 became ill; of 218 in another, 100 to 110 were affected. The number who became ill in the third church has not been determined. All of the 12 churches were catered to by a firm from another State.

Early in 1957 it was noticed that an unusual number of Salmonella reading infections were occurring. A sharp increase in the number began in September 1956 and reached a peak of 71 reported cases in February 1957. Infections were identified almost simultaneously in several widely separated areas of the country. During the 12-month period beginning September 1956, there were 325 acute sporadic cases and 3 outbreaks due to S. reading reported. Previously S. reading was very rarely identified among Salmonella isolates from human or animal infections. Of the present reported cases, 70 percent were in children 6 years of age or younger, and 18 percent in children under 1 year of age. The epidemiological picture strongly suggested a widely distributed common source of infection. However, despite intensive investigation by means of detailed food histories, no common vehicle could be identified.

QUARANTINE MEASURES

Immunization Information for International Travel

No changes reported.

SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from health departments of each State and of Alaska, Hawaii, and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting on these diseases. In addition, when diseases of rare occurrence (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) are reported, this will be noted at the end of table 1.

GPO 333040

If you do not desire to continue receiving this publication, please check here and return.

FIRST CLASS MAIL

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Washington 25, D. C.
Official Business

POSTAGE AND FRES PAID
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE